

SEQ.I.D.NO:1

NYGVH

SEQ.I.D.NO:2

VIWRGGSTDYNAAFMS

SEQ.I.D.NO:3

SPNSNFYWFYFDV

SEQ.I.D.NO:4

SGSSSVSYMY

SEQ.I.D.NO:5

DTSNLAS

SEQ.I.D.NO:6

QQWSSYPPT

SEQ.I.D.NO:7

QVQLKQSGPGLVQPSSLSITCTVSGFSLTNYGVHWVRQSPGKGLEWLGVIWRGG
STDYNAAFMSRLSITKDNSRSQVFFKMNSLQADDTAIY YCAKSPNSNFYWFYFDVW
GTGTTVTVSS

SEQ.I.D.NO:8

QIVLTQSPTIMSASPGKVTMTCSGSSSVSYMYWYQEKPGSSPRLLIEDTSNLAS
GVPARFSGSGGTSYSLTISRMEAEDAATYYCQQWSSYPPTFGSGTKLEIK

SEQ.I.D.NO:9

QVQLVESGGGVVQPGRSLRLSCAASGFSLTNYGVHWVRQAPGKGLEWVAVIWRGG
 STDYNAAFMSRFTISKDNSKNTLYLQMNSLRAEDTAVYYCAKSPNSNFYWF'DVW
 GRGTLVTVSS

SEQ.I.D.NO:10

EIVLTQSPATLSLSPGERATLSCSGSSSVSYMYWYQQKPGQAPRLIEDTSNLAS
 GIPARFSGSGSGTDYTLTISNLEPEDFAVYYCQQWSSYPPTFGQGTKLEIK

SEQ.I.D.NO:11

QVQLVESGGGVVQPGRSLRLSCAASGFSLTNYGVHWVRQAPGKGLEWVAVIWRGG
 STDYNAAFMSRFTISKDNSKNTLYLQMNSLRAEDTAVYYCAKSPNSNFYWF'DVW
 GRGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGA
 LTSGVHTFPAVLQSSGLYSLSSVTVTPSSSLGTQTYICNVNHKPSNTKVDKKVEP
 KSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPE
 VKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA
 LPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWE
 SNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSVSMHEALHNHYT
 QKSLSLSPGK

SEQ.I.D.NO:12

EIVLTQSPATLSLSPGERATLSCSGSSSVSYMYWYQQKPGQAPRLIEDTSNLAS
 GIPARFSGSGSGTDYTLTISNLEPEDFAVYYCQQWSSYPPTFGQGTKLEIKRTVA
 APSVFIFPPSDEQLKSGTASVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQ
 DSKDSTYLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

SEQ.I.D.NO:15

CAGGTGCAACTGAAGCAGTCAGGACCTGGCCTAGTGCAGCCCTCACAGAGCCTGT
CCATAACCTGCACAGTCTCTGGTTTCTCATTAACCTAATTATGGTGTACACTGGGT
TCGCCAGTCTCCAGGAAAGGGTCTGGAGTGGCTGGGAGTGATATGGAGAGGTGGA
AGCACAGACTACAATGCAGCTTTCATGTCCAGACTGAGCATCACCAAGGACAACCT
CCAGGAGCCAAGTTTTCTTTAAAATGAACAGTCTACAAGCTGATGACACTGCCAT
ATACTACTGTGCCAAAAGTCCGAATAGTAACTTTTACTGGTATTTTCGATGTCTGG
GGCACAGGGACCACGGTCACCGTCTCCTCA

SEQ.I.D.NO:16

CAAATTGTTCTCACCCAGTCTCCAACAATCATGTCTGCATCTCCAGGGGAGAAGG
TCACCATGACCTGCAGTGGCAGCTCAAGTGTAAGTTACATGTATTGGTACCAGGA
GAAGCCAGGATCCTCCCCAGACTCCTGATTGAAGACACATCCAACCTGGCTTCT
GGAGTCCCTGCTCGCTTCAGTGGCAGTGGGTCTGGGACCTCTTACTCTCTCAAA
TCAGCCGAATGGAGGCTGAAGATGCTGCCACTTATTACTGTCAACAGTGGAGTAG
TTATCCACCCACGTTTCGGCTCGGGGACAAAGTTGGAAATCAAA

SEQ.I.D.NO:17

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGA
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CCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGTGATATGGAGAGGTGGA
AGCACAGACTACAATGCAGCTTTCATGTCCCGATTACCATCTCCAAGGACAATT
CCAAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGT
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GGCCGTGGCACACTAGTCACAGTCTCCTCA

SEQ.I.D.NO:18

GAAATTGTGTTGACACAGTCTCCAGCCACCCTGTCTTTGTCTCCAGGGGAAAGAG
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GGCATCCAGCCAGGTTTCAGTGGCAGTGGGTCTGGGACAGACTACACTCTCACCA
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TTATCCACCCACGTTTGGCCAGGGGACCAAGCTGGAGATCAAA

SEQ.ID.NO:19

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CCGCCAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAGTGATATGGAGAGGTGGA
AGCACAGACTACAATGCAGCTTTCATGTCCCGATTACCATCTCCAAGGACAATT
CCAAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCTGT
GTATTACTGTGCGAAAAGTCCGAATAGTAACTTTTACTGGTATTTTCGATGTCTGG
GGCCGTGGCACACTAGTCAAGTCTCCTCAGCCTCCACCAAGGGCCCATCGGTCT
TCCCCCTGGCACCCcTCctCCAAGAGCACCTCTGGGGGCACAGCGGCCCTGGGCTG
CCTGGTCAAGGACTACTTCCCCGAACCGGTGACGGTGTCTGTGGAAC TCAGGCGCC
CTGACCAGCGGCGTGCACACCTTCCCGGCTGTCTTACAGTCCTCAGGACTCTACT
CCCTCAGCAGCGTGGTGACCGTGCCCTCAGCAGCTTGGGCACCCAGACCTACAT
CTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGACAAGAAAGTTGAGCCC
AAATCTTGTGACAAAAC TCACACATGCCACCGTGCCCAGCACCTGAACTCCTGG
GGGGACCGTCAGTCTTCTCTTCCCCC AAAACCCAAGGACACCCTCATGATCTC
CCGGACCCCTGAGGTCACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCTGAG
GTCAAGTTCAACTGGTACGTGGACGGCGTGGAGGTGCATAATGCCAAGACAAAGC
CGCGGGAGGAGCAGTACAACAGCACGTACCGTGTGGTCAGCGTCCTCACCGTCCT
GCACCAGGACTGGCTGAATGGCAAGGAGTACAAGTGCAAGGTCTCCAACAAAGCC
CTCCCAGCCCCCA tCGAGAAAACC aTCTCCAAAGCCAAAGGGCAGCCCCGAGAAC
CACAGGTGTACACCCTGCCCCCATCCCGGGATGAGCTGACCAAGaACCAGGT CAG
CCTGACCTGCCTGGTCAAAGGCTTCTATCCCAGCGACATCGCCGTGGAGTGGGAG
AGCAATGGGCAGCCGGAGAACAACTACAAGACCACGCCTCCCGTGCTGGACTCCG
ACGGCTCCTTCTTCTCTACAGCAAGCTCACCGTGGACAAGAGCAGGTGGCAGCA
GGGGAACGTcTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACG
CAGAAGAGCCTCTCCCTGTCTCCGGGTAAA

SEQ.ID.NO:20

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GGCATCCCAGCCAGGTTTCAGTGGCAGTGGGTCTGGGACAGACTACACTCTCACCA
TCAGCAACCTAGAGCCTGAAGATTTTGCAGTTTATTACTGTCAACAGTGGAGTAG
TTATCCACCCACGTTTGGCCAGGGGACCAAGCTGGAGATCAAACGTACGGTGGCT
GCACCATCTGTCTTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAACTG
CCTCTGTTGTGTGCCTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGTG
GAAGGTGGACAACGCCCTCCAATCGGGTAACTCCCAGGAGAGTGTCACAGAGCAG
GACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCTGACGCTGAGCAAAGCAG
ACTACGAGAAACACAAAGTCTACGCCTGCGAAGTCACCCATCAGGGCCTGAGCTC
GCCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGT

SEQ.I.D.NO:21

QVQLVESGGGVVQPGRSLRLSCAASGFSLTNYGVHWVRQAPGKGLEWVAVIWRG
GSTDYNAAFMSRLTISKDNSKNTLYLQMNSLRAEDTAVYYCAKSPNSNFYWFYFD
VWGRGTLVTVSS

SEQ.I.D.NO:40

DYNMD

SEQ.I.D.NO:41

DINPNNGGTIDNQKFKD

SEQ.I.D.NO:42

GIYYYGSHYFDY

SEQ.I.D.NO:43

SATSSVSVMH

SEQ.I.D.NO:44

DTSKLAS

SEQ.I.D.NO:45

QQWSSNPLT

SEQ.I.D.NO:46

EVQLQQSGPELVKPGASVKISCKASGYIFTDYNMDWVKQSHGKKLEWIGDINPNN
GGTIDNQKFKDKATLTVDKSSSTAYMELRSLTSED TAVYYCARGIYYYGSHYFDY
WGQGTTLTVSS

SEQ.I.D.NO:47

QIVLTQSPAIMASAPGEKVTMTCSATSSVSVMHWFQKKSGTSPKRWIYDTSKLAS
GVPTRFSGSGSGTSYSLTISSEAEADTATYYCQQWSSNPLTFGSGTKLELK

SEQ.I.D.NO:48

EVQLVQSGAEVKKPGASVKVSCKASGYIFTDYNMDWVRQAPGQKLEWIGDINPNN
GGTIDNQKFKDRATLTVDKSTSTVYMELSSLRSED TAVYYCARGIYYYGSHYFDY
WGQGTTLTVSS

SEQ.I.D.NO:49

EIVLTQSPSSLSASVGDRVITITCSATSSVSVMHWFQKKPGKAPKRWIYDTSKLAS
GVPSRFSGSGSGTDYTLTISSLQPEDFATYYCQQWSSNPLTFGGGKVDIK

SEQ.I.D.NO:50

EVQLVQSGAEVKKPGASVKVSCKASGYIFTDYNMDWVRQAPGQKLEWIGDINPNN
GGTIDNQKFKDRATLTVDKSTSTVYMELSSLRSED TAVYYCARGIYYYGSHYFDY
WGQGTTLTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSG
ALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKKVE
PKSCDKHTCTPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDP
EVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK
ALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEW
ESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFS CSVMHEALHNHY
TQKSLSLSPGK

SEQ.I.D.NO:51

EIVLTQSPSSLSASVGDRVITITCSATSSVSVMHWFQKKPGKAPKRWIYDTSKLAS
GVPSRFSGSGSGTDYTLTISSLQPEDFATYYCQQWSSNPLTFGGGKVDIKRTVA
APSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQ
DSKDSTYLSSTLTLSKADYEKHKVYACEVTHQGLSPVTKSFNRGEC

SEQ.I.D.NO:52

GAGGTCCAGCTGCAACAGTCTGGACCTGAGCTGGTGAAGCCTGGGGCTTCAGTGA
AGATATCCTGCAAGGCCTCTGGATACATATTCAGTACTACAACATGGACTGGGT
GAAGCAGAGCCATGGAAAGAACTTGAGTGGATTGGAGATATTAATCCTAATAAT
GGTGGTACTATCGACAACCAGAAGTTCAGGACAAGGCCACATTGACTGTAGACA
AGTCCTCCAGCACAGCCTACATGGAGCTCCGCAGCCTGACATCTGAGGACACTGC
AGTCTATTACTGTGCAAGAGGGATTTATTACTACGGTAGTCACTACTTTGACTAT
TGGGGCCAAGGCACCACTCTCACAGTCTCCTCA

SEQ.I.D.NO:53

CAAATTGTTCTCACCCAGTCTCCAGCAATCATGTCTGCATCTCCAGGGGAGAAGGTCAC
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GTACCTCCCCCAAAGATGGATTTATGACACATCCAACTGGCTTCTGGAGTCCCTACT
CGCTTCAGTGGCAGTGGGTCTGGGACCTCTTACTCTCTCACAATCAGTAGCATGGAGGC
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CTGGGACCAAGCTGGAGCTGAAA

SEQ.I.D.NO:54

GAGGTCCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGGCCTCAGTGAAGGT
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CCCCTGGACAAAACTTGAGTGGATTGGAGATATTAATCCTAATAATGGTGGTACTATC
GACAACCAGAAGTTCAGGACAGAGCCACCTTGACCGTAGACAAGTCCACGAGCACAGT
CTACATGGAGCTGAGCAGCCTGAGATCTGAGGACACGGCCGTGTATTACTGTGCGAGAG
GGATTTATTACTACGGTAGTCACTACTTTGACTATTGGGGCCAGGGAACACTAGTCACA
GTCTCCTCA

SEQ.I.D.NO:55

GAAATTGTGTTGACGCAGTCTCCATCCTCCCTGTCTGCATCTGTTGGAGACAGAGTCAC
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GGAAAGCCCCTAAGAGATGGATCTATGACACATCCAACTGGCTTCTGGGGTCCCATCA
AGGTTCAAGTGGCAGTGGATCTGGGACAGATTACACTCTCACCATCAGCAGTCTGCAACC
TGAAGATTTTGCAACTTATTACTGCCAGCAGTGGAGTAGTAACCACTCACGTTTCGGCG
GAGGGACCAAAGTGGATATCAAA

SEQ.I.D.NO:56

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TTCCTGCAAGGCATCTGGATACATATTCACCGACTACAACATGGACTGGGTGCGACAGG

CCCCTGGACAAAACTTGAGTGGATTGGAGATATTAATCCTAATAATGGTGGTACTATC
 GACAACCAGAAGTTCAAGGACAGAGCCACCTTGACCGTAGACAAGTCCACGAGCACAGT
 CTACATGGAGCTGAGCAGCCTGAGATCTGAGGACACGGCCGTGTATTACTGTGCGAGAG
 GGATTTATTACTACGGTAGTCACTACTTTGACTATTGGGGCCAGGGAACACTAGTCACA
 GTCTCCTCAGCCTCCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCcTCctCCAAGAG
 CACCTCTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCCGAACCGG
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 AGGCTTCTATCCAGCGACATCGCCGTGGAGTGGGAGAGCAATGGGCAGCCGAGAACAA
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SEQ.I.D.NO:57

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 AGGTTTCAGTGGCAGTGGATCTGGGACAGATTACACTCTCACCATCAGCAGTCTGCAACC
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 GAGGGACCAAAGGATATCAAACGTACGGTGGCTGCACCATCTGTCTTCATCTTCCCG
 CCATCTGATGAGCAGTTGAAATCTGGAACCTGCCTCTGTTGTGTGCCTGCTGAATAACTT
 CTATCCAGAGAGGCCAAAGTACAGTGGAAGGTGGACAACGCCCTCCAATCGGGTAACT
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 TCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGT

SEQ.I.D.NO:61

QVQLVESGGGVVQPGRSLRLSCAASGFSLTNYGVHWVRQAPGKGLEWVAVIWRG
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 SGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDK
 KVEPKSCDKHTHTCPPCPAPELAGAPSVFLFPPKPKDTLMI SRTPEVTCVVVDVS
 HEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKC
 KVS NKALPAPIEKTISKAKGQPREPQVYITLPPSRDELTKNQVSLTCLVKGFYPS
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 EALHNHYTQKSLSLSPGK

SEQ.I.D.NO:62

CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTG
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GGAAGCACAGACTACAATGCAGCTTTCATGTCCCGATTACCATCTCCAAGGAC
AATTCCAAGAACACGCTGTATCTGCAATGAACAGCCTGAGAGCCGAGGACACG
GCTGTGTATTACTGTGCGAAAAGTCCGAATAGTAACTTTTACTGGTATTTTCGAT
GTCTGGGGCCGTGGCACACTAGTCACAGTCTCCTCAGCCTCCACCAAGGGCCCA
TCGGTCTTCCCCCTGGCACCCCTCCTCCAAGAGCACCTCTGGGGGCACAGCGGCC
CTGGGCTGCCTGGTCAAGGACTACTTCCCCGAACCGGTGACGGTGTCTGTGGAAC
TCAGGCGCCCTGACCAGCGGCGTGCACACCTTCCCGGCTGTCCTACAGTCTCTCA
GGACTCTACTCCCTCAGCAGCGTGGTGAACCGTGCCCTCCAGCAGCTTGGGCACC
CAGACCTACATCTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGACAAG
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CACGAAGACCCCTGAGGTCAAGTTCAACTGGTACGTGGACGGCGTGGAGGTGCAT
AATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCACGTACCGTGTGGTC
AGCGTCCTCACCGTCCTGCACCAGGACTGGCTGAATGGCAAGGAGTACAAGTGC
AAGGTCTCCAACAAAGCCCTCCAGCCCCCATCGAGAAAACCATCTCCAAGCC
AAAGGGCAGCCCCGAGAACCACAGGTGTACACCTGCCCCCATCCCGGGATGAG
CTGACCAAGAACCAGGTGAGCCTGACCTGCCTGGTCAAAGGCTTCTATCCCAGC
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ACGCCTCCCGTGCTGGACTCCGACGGCTCCTTCTTCCTCTACAGCAAGCTCACC
GTGGACAAGAGCAGGTGGCAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCAT
GAGGCTCTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAA